BookletChart

Entrance to San Francisco Bay

(NOAA Chart 18649)

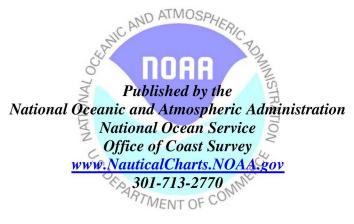


A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ☑ Convenient size
- ☑ Up to date with all Notices to Mariners
- ☑ United States Coast Pilot excerpts
- ☐ Compiled by NOAA, the nation's chartmaker.

Approximate Page Index

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What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart $\stackrel{\text{\tiny TM}}{=}$?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 7 excerpts] (78) Bolinas Bay, E of Duxbury Point, is an open bight 3.5 miles wide between Duxbury Point and Rocky Point. Bolinas Lagoon is separated from the bay by a narrow strip of sandy beach that is cut by a narrow shifting channel.

(79) **Rocky Point** is 100 feet high and shelving. Numerous detached rocks are within 200 yards of the high and precipitous cliffs on the S side of the point.

(81) Point Bonita, on the N side of the

entrance to Golden Gate, is a sharp black cliff 100 feet high, increasing to 300 feet on its seaward face, 0.3 mile N. From NW it shows as three heads. **Point Bonita Light** (37°48.9'N., 122°31.8'W.), 124 feet above the water, is shown from a 33-foot white tower on the S head. A fog signal is at the light.

- (82) **Bonita Cove,** E of Point Bonita, is occasionally used as an anchorage by small vessels. The anchorage is close under Point Bonita in about 36 feet.
- (213) **Golden Gate,** the passage between the ocean and San Francisco Bay, is 2 miles wide at the W end between Point Bonita and Point Lobos, but the channel is reduced in width to 1.5 miles by Mile Rocks and to less than 0.7 mile by the Golden Gate Bridge pier.
- (214) **Point Lobos**, the S entrance point to the Golden Gate, is high, rocky, and rounding with black rugged cliffs at its base. A large water tank is on the summit. The **Cliff House** is near the S part of the W face of the point; high and rocky **Seal Rocks** are just offshore.
- (215) **Mile Rocks**, 700 yards NW of the sharp projecting point off **Lands End** on the N face of Point Lobos, are two small 20-foot-high black rocks about 100 feet apart. **Mile Rocks Light** (37°47.6'N., 122°30.6'W.), 49 feet above the water, is shown from an orange and white horizontally banded tower on the outer and larger rock; a fog signal is at the light. (216) Passage between Mile Rocks and Point Lobos should not be attempted because of the covered and visible rocks extending over 300 yards from shore and the rocks covered 6 and 14 feet S of Mile Rocks Light.
- (217) The S shore of the Golden Gate extends in a gentle curve NE for 2 miles to Fort Point, forming a shallow bight called **South Bay.** The cliffs rise abruptly from narrow beaches, except near the middle of the bight where a valley terminates in a sand beach 0.3 mile long. Sailing craft are sometimes obliged to anchor here when becalmed, or when meeting an ebb current, to avoid drifting onto Mile Rocks, but the anchorage is uncomfortable and it is difficult to get underway from it.
- (218) **Fort Point** projects slightly from the high cliffs and is marked by a square red brick fort with a stone seawall in front. The fort, which is obscured by the S end of the Golden Gate Bridge, and 29 acres of land adjacent to the fort are part of the Fort Point National Historic Site. The fishing wharf at Fort Point is unsafe for mooring because of surge conditions.
- (220) **Point Diablo,** 1.4 miles E of Point Bonita, rises abruptly from a 0.1-mile sharp projection to a height of over 200 feet with deep water on all sides. A light is shown from a white house on the end of the point; a fog signal is at the light.
- (222) **Lime Point,** 2.5 miles E of Point Bonita, is high and precipitous, and rises abruptly to a height of nearly 500 feet in less than 0.3 mile. A light is shown from a pole at the end of the point; a fog signal is at the light.
- (223) **Golden Gate Bridge,** crossing the Golden Gate from Fort Point to Lime Point, has a clearance of 225 feet at the center of the 4,028-footwide channel span between the 740-foot-high supporting towers; the least clearance is 211 feet at the S pier. The center of the span is marked by a fixed green light with three fixed white lights in a vertical line above it and by a private fog signal; a private light and fog signals are on the S pier. When approaching Golden Gate Bridge in the eastbound traffic lane in fog, channel Buoy 2 sometimes provides a radar image that indicates the location of the S pier of the bridge. Aero obstruction lights mark the tops of the bridge towers. (Do not rely on radiobeacon bearings when within 0.5 mile of the bridge.)
- (228) From N, coasters and other vessels use buoyed **Bonita Channel**, between the E end of Potatopatch Shoal and the shore N of Point Bonita. The channel is narrowed to 0.2 mile by several rocky patches including **Sears Rock**, covered 19 feet, 1.2 miles NW of Point Bonita. (419) **Berkeley Yacht Harbor**, on the N side of the long pier, is
- protected at the entrance by two detached breakwaters. The S breakwater is marked by a light on the S end, a light at the center, and a light and fog signal at the N end. The N breakwater is marked by a light on the NE and SW ends. The N side of the entrance into the harbor is marked by a private light, and the S side by a private light and fog signal.
- (425) **Richmond Harbor,** on the E shore of San Francisco Bay 1.5 miles N of Southampton Shoal Light, includes the port facilities to Point San Pablo.

OCORTE MADERA CHANNEL All aids to navigation are equipped with radar reflectors and are privately maintained.

Corrected through NM Dec. 05/09 Corrected through LNM Nov. 24/09

For Symbols and Abbreviations see Chart No. 1

Mercator Projection Scale 1:40,000 at Lat 37° 51'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

RICHMOND - SAN RAFAEL BRIDGE

3 fixed white lights are mounted vertically over fixed green lights at the center of the main navigation channel spans. Clearances of the main navigation channel spans:

WEST CHAN EAST CHAN 1000 FT 970 FT 185 FT 135 FT

RACING BUOYS

RACING BUUTS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

SAN BAFAEL CREEK

SAN RAFAEL CREEK
The controlling depth was 3 feet for a
mid-width of 50 feet from the channel entrance
3" 5" 3" 0" 1, 122" 2" 13" W., to the mouth of
San Rafael Creek: thence 3 feet for a width of
30 feet to the turning basin, 4 feet in the turning
basin centered at 3" 58 08" N, 122" 31 03" W, basin centered at 37 36 of N, 122 31 G3 W, thence 2 feet for a width of 60 feet to the Grand Ave. Bridge, except for shoal to bare for last 125 feet.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

ARTICULATED AIDS

An articulated aid to navigation consists of a pipe structure that oscillates around a universal coupling connected to a sinker. The structure is kept upright by the buoyancy of a submerged flotation chamber. It is designed primarily to mark narrow channels in depths of up to 60 feet. All articulated aids are labelled "Art".

Elevations of rocks, bridges, landmarks, and lights are in feet and refer to Mean High Water. Contour and summit elevation values are in feet and refer to Mean Sea Level.

SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine ples and submarine pipeline and cable areas

Additional uncharted submarine pipelines and ubmarine cables may exist within the area of his chart. Not all submarine pipelines and sub-narine cables are required to be buried, and hose that were originally buried may have secone exposed. Mariners should use extreme sutton when operating usesels in denths of occure exposed. Manners should use exfreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted throws.

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

Table of Selected Chart Notes

HORIZONTAL DATUM

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.265° southward and 3.900° westward to agree with this chart.

NOTE S

NOTE S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

NOTE Z

NO-DISCHARGE ZONE, 40 CFR 140

Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the wetcher of deshare of sewage. anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/tegulatory/vessel_sewage/.

Note a

Navigation regulations are published in Chapter 2, U.S.
Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in San Francisco, California.

Parker to observed resultation continue pumpers.

Refer to charted regulation section numbers.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

OAKLAND INNER HARBOR BRIDGES

UITVALE AVE RR LIFT BRIDGE

HIGH ST BASCULE BRIDGE HOR CL 244 FT HOR CL 129 FT (OPEN) VERT CL 16 FT (100 FT CENTER WIDTH)

FRUITVALE AVE BASCULE BRIDGE HOR CL 97 FT HOR CL 72 FT (OPEN) VERT CL 15 FT

PARK ST BASCULE BRIDGE HOR CL 241 FT HOR CL 139 FT (OPEN) VERT CL 15 FT (100 FT CENTER WIDTH)

BROOKLYN BASIN FIXED BRIDGE HOR CL 89 FT VERT CL 11 FT

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, <u>United States Coast Pilot.</u>

COLREGS: International Regulations for Preventing Collisions at Sea, 1972.

Demarcation lines are shown thus: —————

The City of Richmond is requesting vessels use extreme caution when turning or anchoring in the vicinity of their 72° diameter sewer pipeline which is located 4700 feet offshore of Point Richmond at a depth of 26 feet below mean lower low water in approximate position 37°54'47°N, 122°25'06°W.

DEEP WATER ROUTE

Vessels with a draft of 45 feet or greater should use the "Deep Water Route" east of the Golden Gate Bridge. Vessels intending to use the Deep Water Route should notify San Francisco Traffic before passing Mile Rocks. Deep draft vessels will neither meet nor overtake in the Deep Water Route. Deep draft vessels bound for anchorage 9 should pass east of Blossom Rock then through the C-D or D-E span of the San Francisco-Oakland Bay Bridge.

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Goospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at

TRAFFIC LANES

Traffic lanes are intended for use by vessels 1600 gross tons and over; arrows indicate the approximate direction flow within each lane. The provisions of inland Navigation Rule 9 apply to all vessels navigating in the traffic lanes.

NOTE X

NOTEX Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject — to modification.

VESSEL TRAFFIC SERVICE

VESSEL TRAFFIC SERVICE

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the San Francisco Bay and surrounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual. Mariners should consult these sources for applicable rules and reporting requirements. Although mandatory VTS participation is limited to the navigable waters of the United States, certain vessels are encouraged or may be required, as a condition of port entry to report beyond this area to facilitate advance vessel traffic management within the VTS area.

The U.S. Coast Guard operates a Vessel Traffic Service Offshore Vessel Movement Reporting System covering the seaward approaches to San Francisco Bay. Vessels are requested to monitor VTSSF on Channel 12 at 15 and 45 minutes past each hour for broadcast reports of known shipping traffic in the area.

All of San Pablo Bay is within the VTS area with the exception of the Petaluma River Entrance Channel.

PLACE	Height referred to datum of soundings (MLLV				
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water	
		feet	feet	feet	
Dakland Inner Harbor	(37°48'N/122°17'W)	6.5	5.8	1.1	
Point Orient	(37°57'N/122°25'W)	6.0	5.4	1.1	
San Francisco (Golden Gate)	(37°48'N/122°28'W)	5.8	5.2	1.1	
Rincon Point, Pier 22 1/2	(37°47'N/122°23'W)	6.3	5.7	1.1	
Hunters Point , California	(37°44'N/122°21'W)	6.7	6.1	1.1	
Yerba Buena Island	(37°49'N/122°22'W)	6.2	5.5	1.1	

tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

SAN FRANCISCO BAY										
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2008										
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MILLW) PROJECT DIMENSIONS								NSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)		
MAIN SHIP CHANNEL: ENTRANCE	50.0	54.0	55.0	53.0	3-08	2000	4.3	55		
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION										

SOUNDINGS IN FEET

8649

122° 40 650 000 NOTE B SUPPLEMENTAL INFORMATION PRECAUTIONARY AREA Consult U.S. Coast Pilot 7 for important supplemental information. PRECAUTIONARY AREA

Traffic lanes and the associated precautionary area established at the approachs to San Francisco Bay are completely shown on Chart 18845.

Traffic within the Precautionary Area may consist of vessels making the transition between the Main Ship Channel and one of the established traffic lanes. Marriers are advised to exercise extreme caution when nexigating within this area. The normal cruising area of the pilot vessel is indicated "PILOT AREA," When passing Traffic Lane Lighted Buys "S", "Wry, or "N, indoud vessels should contact the pilot boat on channel 13 for boarding instructions. Traffic within the Precautionary courses. Vessels transiting the Precenterline of the area to port provid within the area. Mariners are advise AUTHORITIES Hydrography and topography by the National Ocean Service, Coast Survey, with additional dara from the Corps of Engineers, Geological Survey, and J.S. Coast Guard. HORIZONTAL DATUM The horizontal DRIOM

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Geographic positions referred to the North American Datum of 1927 must be corrected an everage of 0.765" southward and 3.900" westward to caree with bits chart. Traffic lanes are intended for u indicate the approximate direction Navigation Rule 9 apply to all vess NOTE C SEPARATION ZONE Mariners are requested to stay outside the circular soparation zone contored on the San Francisco Approach Lighted Horn Buoy SF. to agree with this chart. Vessels with a draft of 45 feet or the Golden Gate Bridge. Vessels inotify San Francisco Traffic before the there wet nor overtake in the Denachorage 9 should pass east of Bit the San Francisco-Oakland Bay Br NOTE S NOTE S
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Navigation regulations are published in Chapter 2, U.S.
Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Command; 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in San Francisco, California.

An Francisco, California.

Hefor to charted regulation section numbers. CAUTION Limitations on the use of radio signals as aids to marine navigation can be found in the J.S. Coast Guard Light Lists and National Geospat al-Intelligence Agency Publication 117. Radio direction-finder bearings to commercia croadoast ng stations are subject to error and decaded as a subject to error and decaded The U.S. Coast Guard operates a in the San Francisco Bay and sur designated radiotelephone frequenc should be used with caution Station positions are shown thus: (Accurate location) o(Approximate location) NOTE Z NO-DISCHARGE ZONE, 40 CFR 140 Under the Clean Water Act, Seotion 312, all vessels operating within a No-Discharge Zone (NDZ) are completely The U.S. Coast Guard operates a POLLUTION REPORTS Reporting System covering the seavare requested to monitor VTSSF on Report all spills of oil and hezerdous sub-stances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephore communication is impossible (33 CFR 153). All of San Pablo Bay is within the Entrance Channel. AIDS TO NAVIGATION COLREGS: International Regula Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation. NOAA WEATHER RADIO BROADCASTS The NOAM Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 4 marciaal miles from the antenna site, but can be as much as 100 nautical miles for stations at Middle Paak M Α high elevations
 VIt. Pise, CA
 KH3-49
 162.400 MHz WX2

 VIt. Umunhum, CA
 KEC-49
 162.550 MI Iz WX1

 VIt. Umunhum, CA
 WWF-64
 162.450 MHz WX5
 17G001 V 37 55 SAN FRANCISCO BAY Kent I TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2008 520 000 MAIN SHIP CHANNEL: 50.0 54.0 3-08 NOTE CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSECUENT TO THE ABOVE INFORMATION 24 25 31 B OLINA S 37 15 41 (4) BA 18 2 12 47 17 41 45 11 42 33 53 56 50



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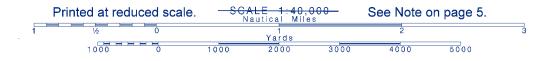
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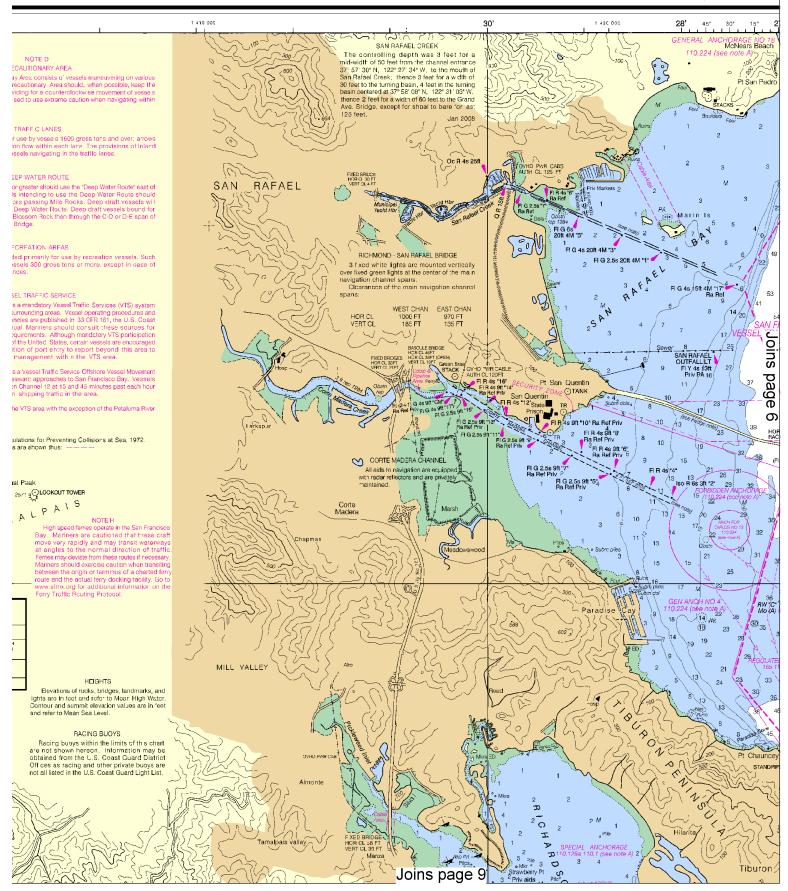
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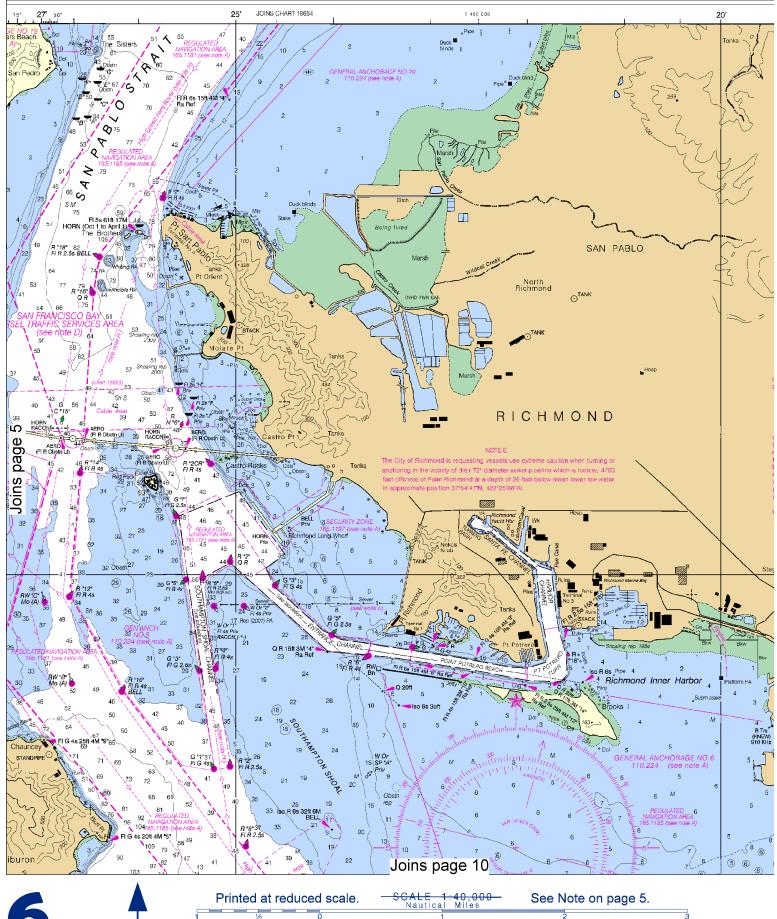
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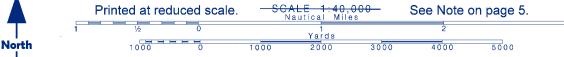
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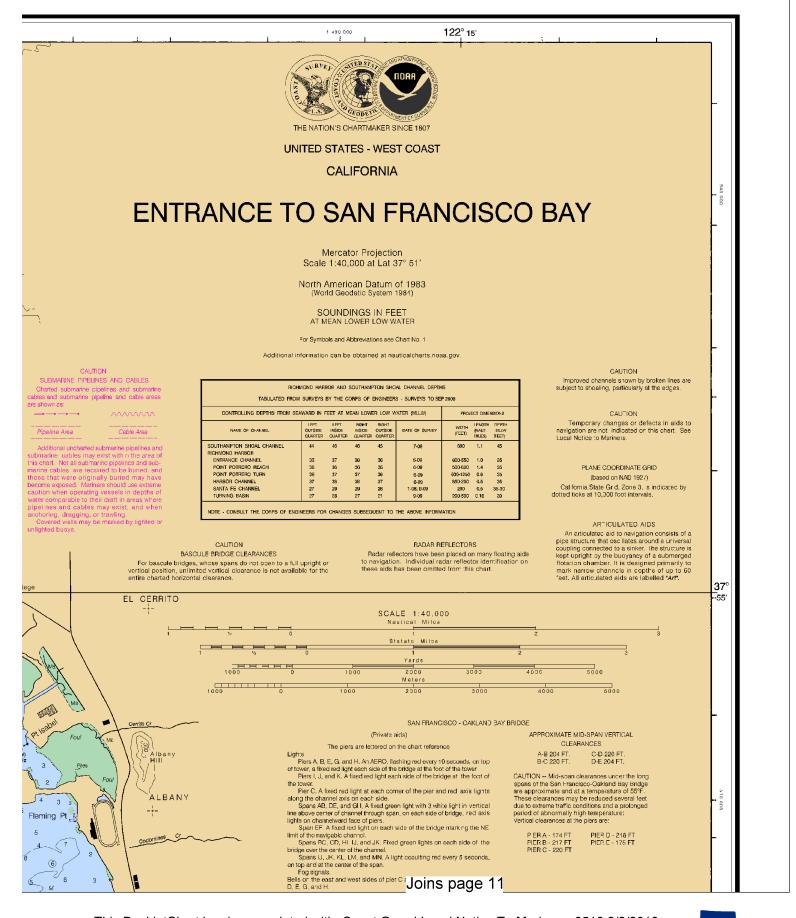


This BookletChart was reduced to 70% of the original chart scale. The new scale is 1:57143. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

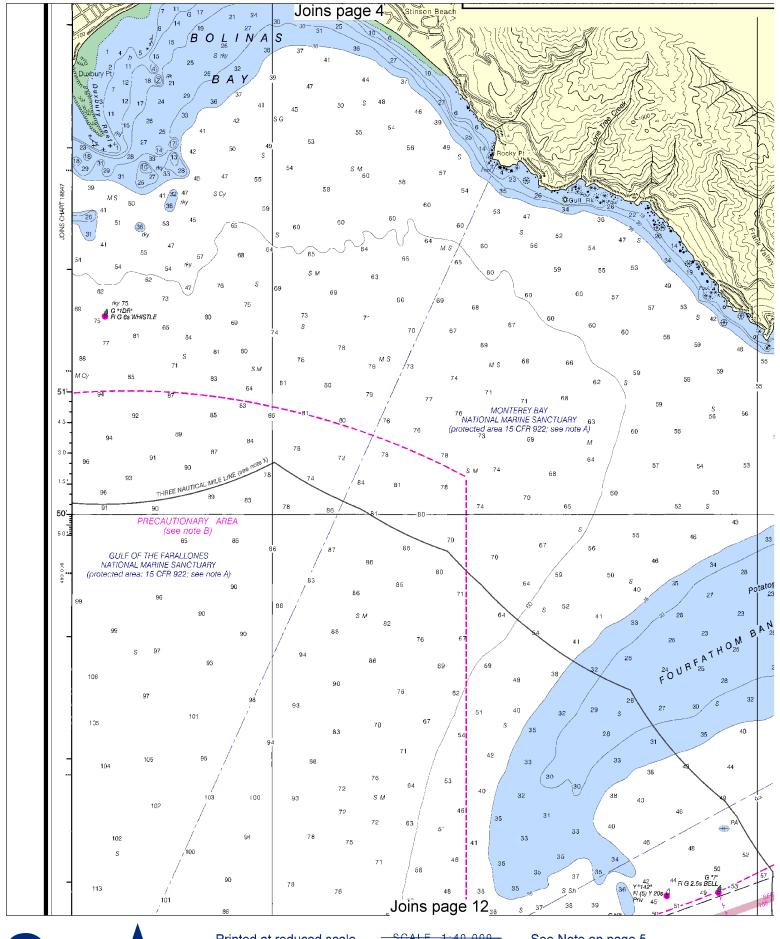






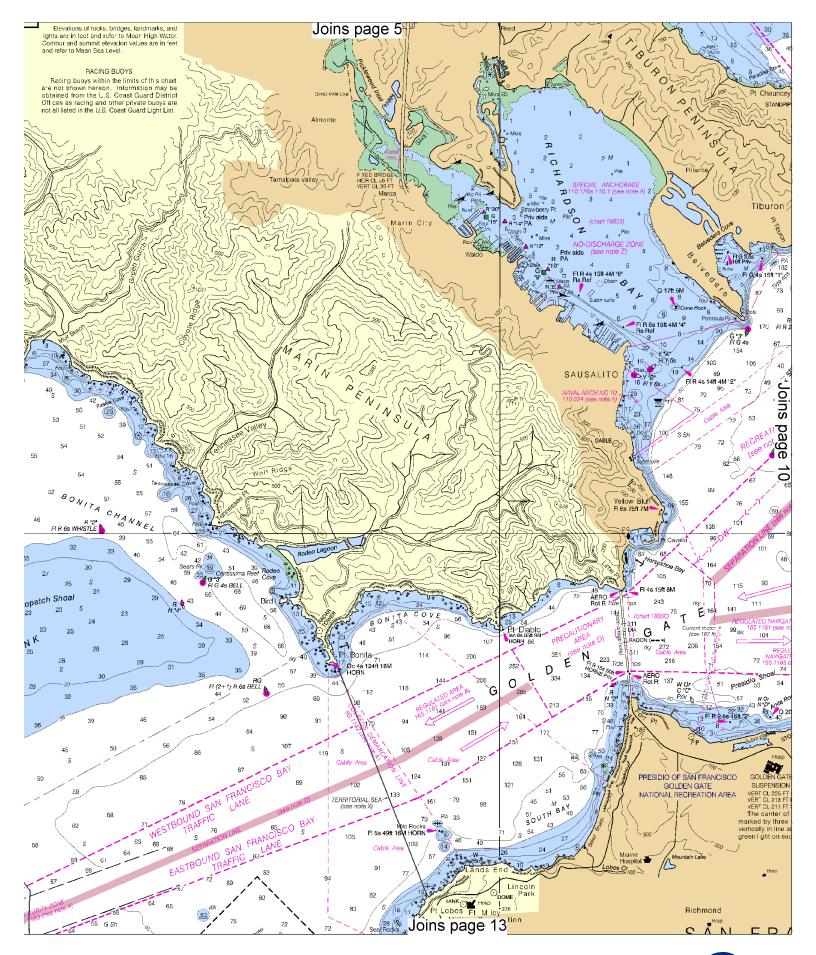


Canadian Coast Guard Notice to Mariners: n/a.

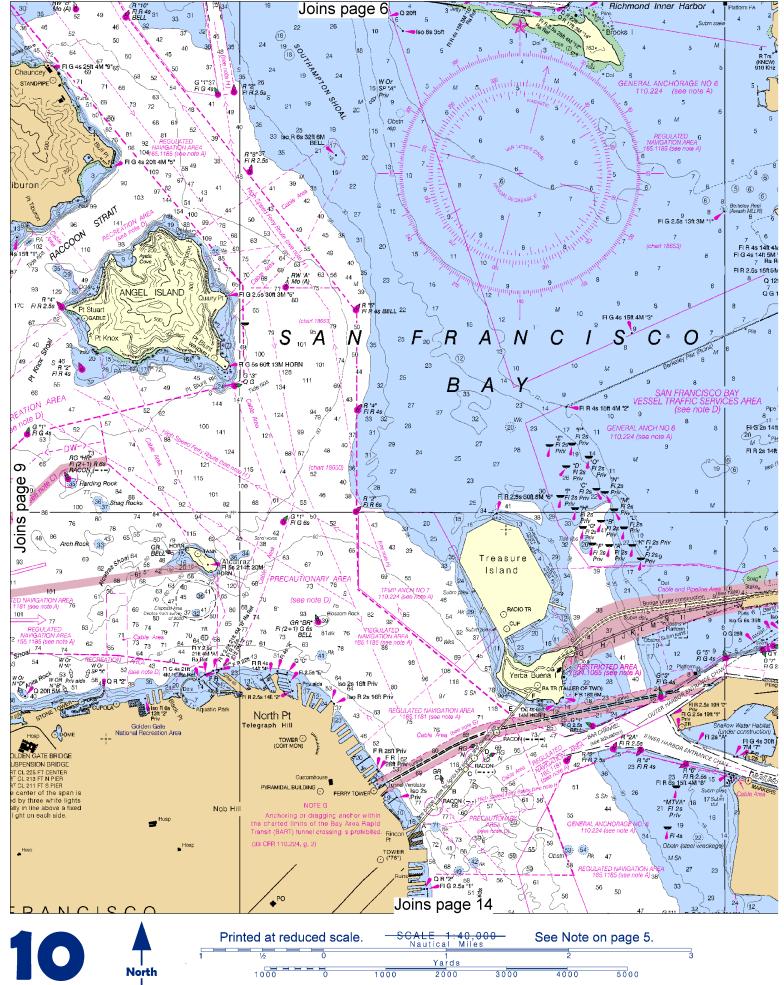




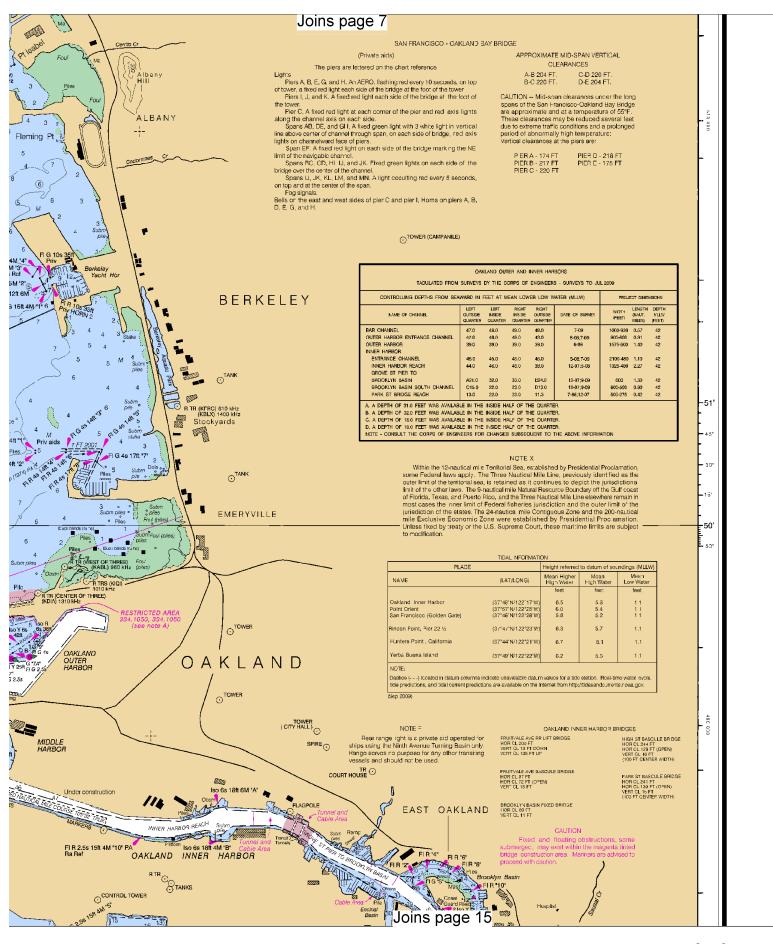


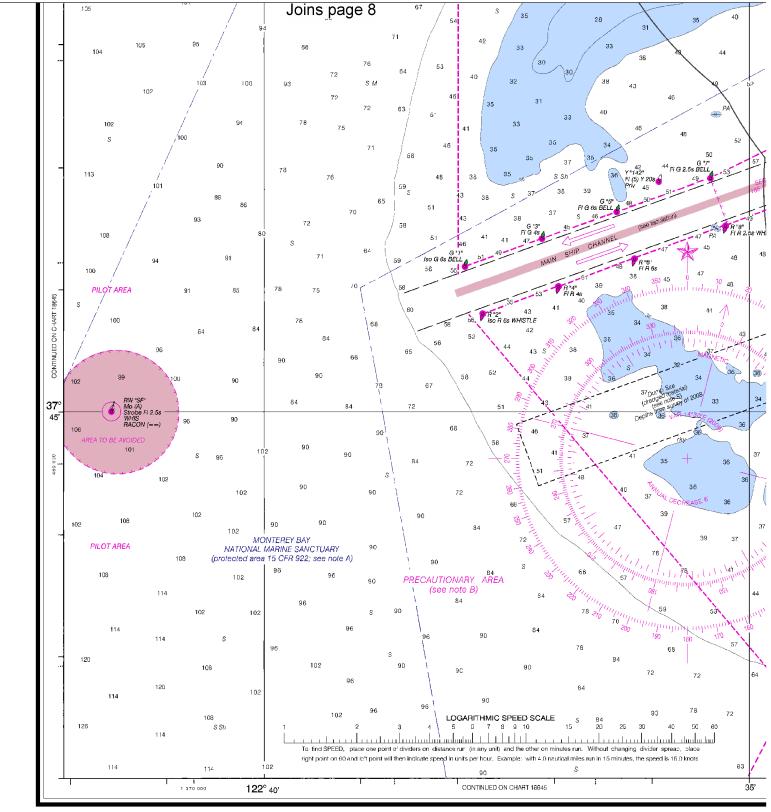












67th Ed., Dec./09 **1 18649**

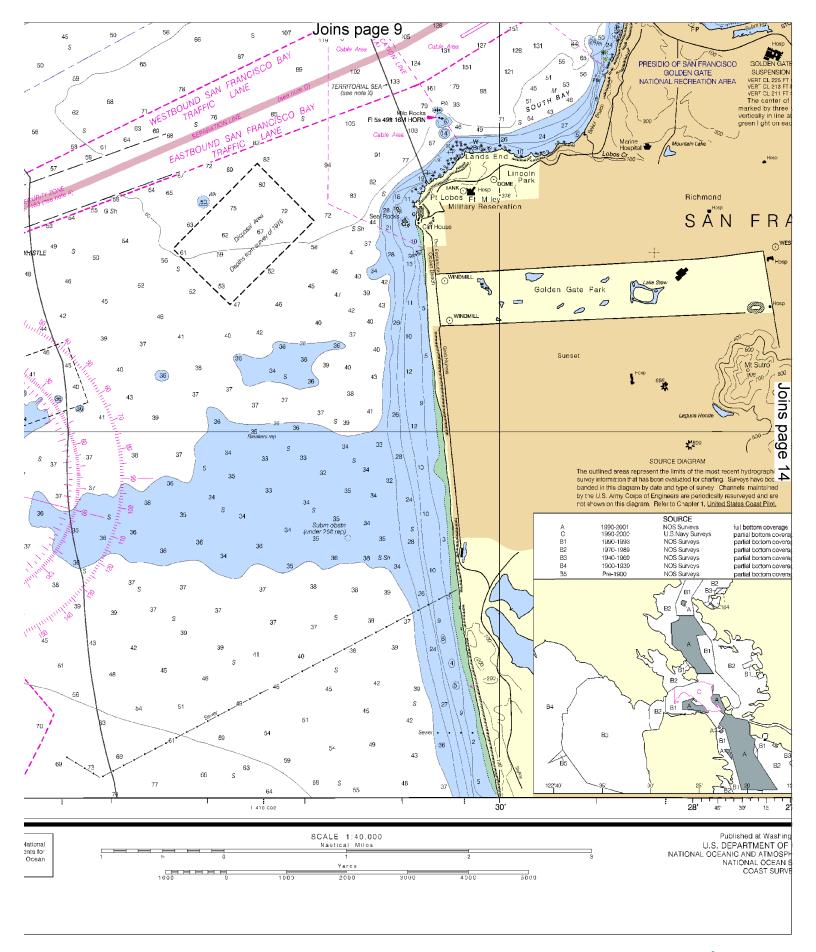
Corrected through NM Dec. 05/09 Corrected through LNM Nov. 24/09

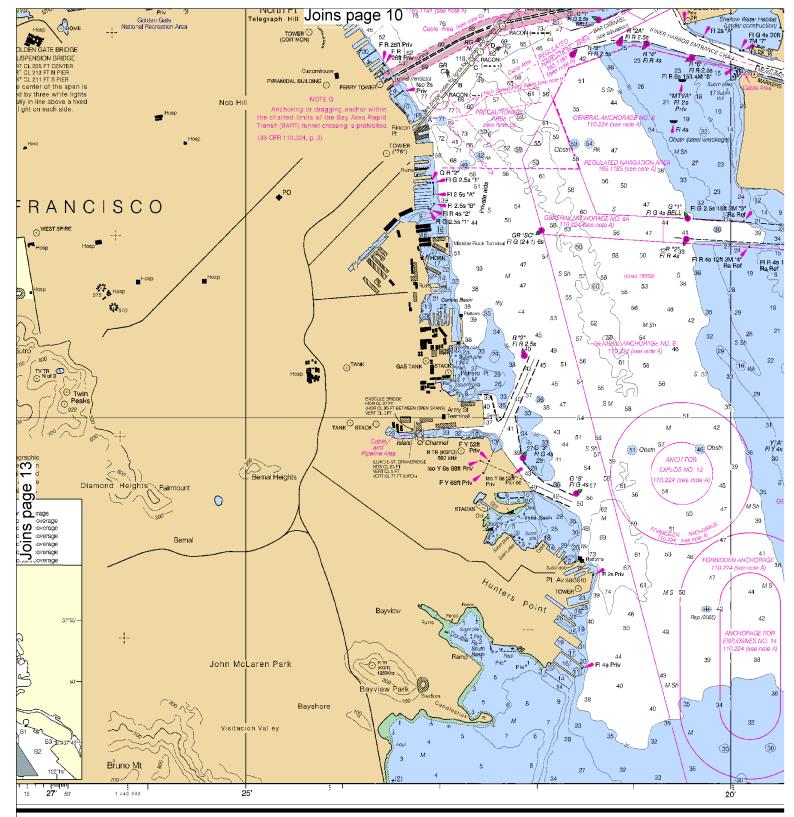
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This nautical chart has been designed to promote safe navigation. The Nat Occan Sorvice croourages users to submit corrections, additions, or comment improving this chart to the Chief, Marine Chart Division (N/CS2), National Oceanics, NOAA, Silver Spring, Maryland 20910-3252.









at Washington, D.C. IENT OF COMMERCE ATMOSPHERIC ADMINISTRATION LOCEAN SERVICE AST SURVEY

PRINT-ON-DEMAND CHARTS

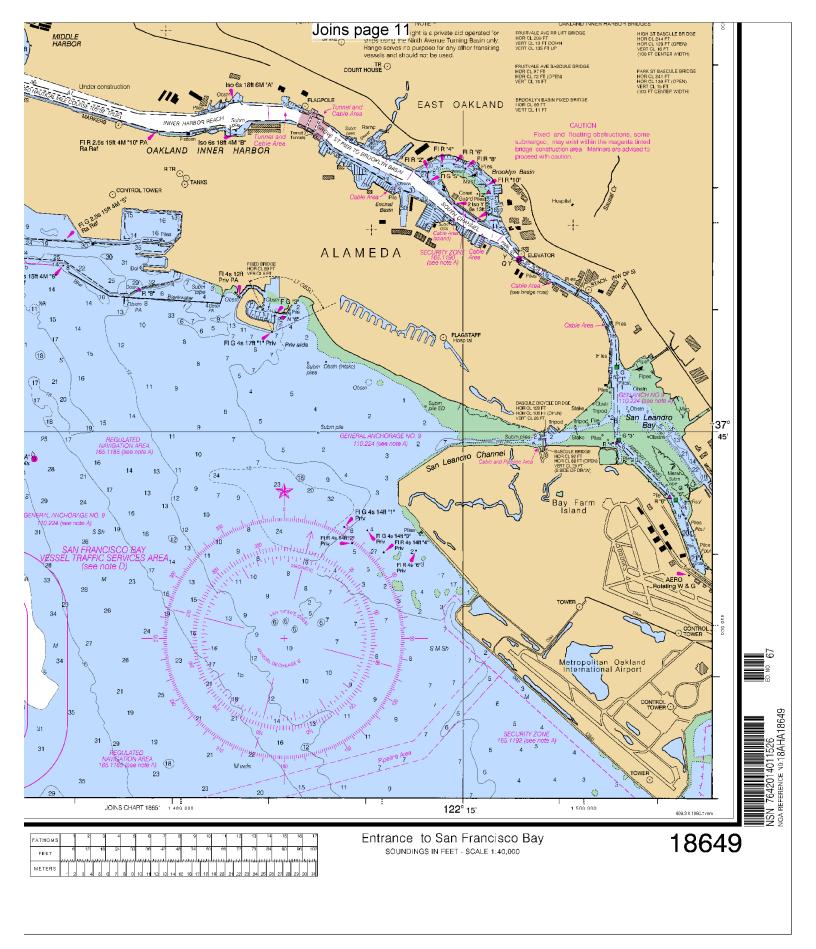
PRINT-ON-DEMAND CHARTS

NOAA and its parner, OceanGrafix, offer this chart uodated weekly by NOAA for Notices to Mariners and crit cal corrections. Charts are orinted when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-or-Demand charts or contact NOAA at 1-809-984-4683, http://NaulicalCharts.gov, help@NoaticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com.

SOUNDINGS IN FEET







EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

- 1. Make sure radio is on.
- 2. Select Channel 16.
- 3. Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- 6. Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!!

Mobile Phones – Call 911 for water rescue.

Coast Guard Search & Rescue – 510-437-3700 Coast Guard San Francisco – 415-399-3479 Commercial Vessel Assistance – 1-800-367-8222

<u>NOAA Weather Radio</u> – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

<u>Getting and Giving Help</u> – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts — These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) –

ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs[™]) –

RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketChartsTM – PocketChartsTM are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.Noa.gov, <a href="